A. WIRE ENGINEERING SECTION

1. Langley Signal Center 5/10 Year Planning -

a. The "switch" area has been revised to include the MAX-III, terminal processor, and "COINS" systems in the same physical area as previously layed out for the first two systems. All previous layouts remain the same.

b. Cabling of the "Black" frame to the new black switchboard and the "Red" frame to the new "Red" switchboard is taking place on a time available basis.

2. CIFAX -

25X1 a. [redacted] is expected to retrofit all equipments with power line filters within the next 120 days.

b. The Auto-Sync unit being tested in the CIFAX system appears to be acceptable to all users.

c. Traffic-Alarm boxes are being built for use with each CIFAX terminal area. [redacted] has now provided 25X1 cabling from their printer units to control the Traffic-Alarm units.

25X1

[redacted]

b. DCI Residence/OCI Watch Office -

This installation was completed and, after a few "hitches", became operational.

c. Two additional Call Director Systems were transferred to the Langley Technical Section for installation in the DCI office and Mr. [redacted]s office. 25X1

4. ARLS - A contract for the prototype system has been 25X1 let at a price of [redacted] to [redacted] The contract 25X1 contains an option for production of 10 additional units if progress and funding permit.

25X1

5. MAX-II - Contract negotiations with [redacted] will be held 1-2 June. Contract price will b[redacted] Delivery of the hardware will be 12 months ARO and acceptance is anticipated 18 months ARO. Final program debugging will be done at [redacted]. 25X1

6. Data Systems -

a. The Auto-Sync units for use with data and voice systems are expected to be delivered during June.

b. The preliminary specifications for control and monitor consoles at Langley have been forwarded to all interested offices for their evaluation and comments.

[redacted] 25X1

8. Universal Alarm Panel - AP-24A - The remaining twenty-three panels have not been received per schedule due to availability of certain components.

9. Shielded Enclosure Telephone Ringer/Door Button Buzzer - The twenty units have been received and are now undergoing reliability tests.

10. CSR-4 - MWO 60-3, which improves operational reliability, was sent to the field this month. No further reporting will be made.

R-20 - The input to three R-20 keyers has been modified in an attempt to eliminate the problem of faulty operation due to the oxidation of the stepping relay contacts in torn-tape transmitter units. The first keyer, an R20-D, has been under a high volume test for over 30 days. An R20-B and R20-C having similar modifications have been operating without fault for one week. Prior to the modification, the stepping switches required spraying with contact cleaner each 8 hour watch. If the units prove operationally reliable, a group of each model will be modified and subjected to RFI tests before being implemented. The modification to the keyers is very simple and can easily be accomplished in the field.

11. Possible Flexowriter Replacement - The prototype model of this equipment has arrived for the Washington Show and Tell. A second model is now underway for RFI testing.

12. HW-28 - A technical bulletin is being prepared on the proper grounding of HW-28 equipment.

25X1

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25X1 11. Receiver Frequency-Shift Converter Evaluation - [redacted] Personnel appear pleased with simplified performance of the Frederick Model 1200. They are presently awaiting arrival of a second converter and display unit for diversity performance evaluation.

25X1 12. [redacted] Shop/Antennas - ATS-50 and VRA-6 antennas have been roof mounted; coaxial and control cables are being installed. Upon receipt of required guying hardware supporting masts for installing the AN-59 antenna will be erected.

13. Equipment

[redacted]

25X1

25X1 d. The [redacted] TSTK-2.5 KW prototype transmitting linear (automatic and manual tuned) is presently being evaluated by the R&D Lab.

e. Antenna tuners, Gates HFAS-9 (1 KW), HFAS-4B (5 KW), and TMC ATS-50-2 (1 KW) for use with 35 foot long vertical antennas have been evaluated by the R&D Lab. The HFAS-9 looks very good as a probable replacement for the ATS-50-2 featuring plug-in pre-set frequency cords in addition to performing as well in other respects as the TMC unit. The Delta tuner is somewhat less costly and may provide more trouble-free operation. A small initial quantity of the Delta tuners will be procured for operational tests.

14. Modification Work Orders - A MWO has been written for the replacement of an incorrect resistor (at the factory) on all previously procured Northern 174, Model 2 and 3 transistorized receiving frequency shift converters. This will be distributed to the field. OC-OS has requested a MWO on Hallicrafter SBT-20 (Villager) transceivers which provides a small frequency excursion on transmitter as well as the receiver instead of only a capability of receiver shift (clarifier).

15. Technical Bulletin - A technical bulletin was written which describes adjustment procedures to provide reduced distortion in Northern combiners, Model 235 when in-band diversity tone multiplex system is used.

16. Tri-Services Receiver - Current (January 1966) amended specifications for a Tri-Services receiver by NSA has been obtained. These appear too stringent.

D. ATTACHMENT

TDY Report